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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/670,857	09/25/2003	Sameer S. Marathe	03-106	2330
719	7590	05/10/2004	EXAMINER	
CATERPILLAR INC. 100 N.E. ADAMS STREET PATENT DEPT. PEORIA, IL 616296490			SCHWARTZ, CHRISTOPHER P	
		ART UNIT	PAPER NUMBER	
			3683	

DATE MAILED: 05/10/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.	10/670,857	Applicant(s)	MARATHE, SAMEER S.
	Examiner Christopher P. Schwartz	Art Unit 3683	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-14 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-14 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 2.

- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) Notice of Informal Patent Application (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 1.
- 6) Other: ____.

CHRISTOPHER P. SCHWARTZ
PRIMARY EXAMINER
PTO/SB/08
10/2008

DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement has been received and considered.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

3. Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishii in view of Holst et al. ('311).

Regarding claims 1,10 as broadly claimed, Ishii discloses a monitoring apparatus for a brake system comprising a pressure detection device 11 and a monitoring device 13.

Ishii lacks a specific discussion of sampling the output signal of the pressure detection device 11 at pre-determined intervals during operation of the vehicle.

Ishii does discuss calculating a pressure gradient as discussed at the bottom of column 8, column 10 lines 10-15 and column 11 lines 49-54 and that the "abnormal condition" is determined only when it has been detected several times. This is to avoid an incorrect determination of an abnormal condition. Note that the timer begins when the switch is turned on, col. 13 lines 54-58. If the abnormal condition is detected the maximum speed of the vehicle is limited, col. 23 lines 24+. It therefore appears that the brake pressure monitoring system of Ishii functions during operation of the vehicle.

The reference to Holst et al. '311 is relied upon to show it is well known in the art to "sample the output signal" from a pressure sensor for adjustment of the brake pressure in a brake cylinder. See columns 1 and 2.

One having ordinary skill in the art at the time of the invention would have found it obvious to have continuously "sampled" the signal from the pressure sensor 11 in Ishii et al. at predetermined time intervals and to have compared these values to threshold values stored in the ECU 13 simply as an alternative equivalent method of determining an accurate abnormal pressure condition in the accumulator or system of Ishii et al.

Note figures 3a and 3b of Ishii et al.

Regarding claims 2-3 note the accumulator at 7.

Regarding claims 4-7, and as broadly claimed, these requirements are taught by the references above.

Regarding claim 8 note the monitoring apparatus starts when the ignition switch is turned on. See column 13 lines 54-57.

Regarding claim 9 simply to have altered the condition at which the monitoring system of Ishii et al. begins to monitor the brake pressure to a "predetermined RPM value" of the engine would simply amount to an alternative equivalent arrangement to the Ishii et al. method of turning on the ignition switch.

Regarding claim 11 the system of Ishii et al., as modified, must compute at least one of the values claimed in conditions (i) or (v) to activate the alarm upon an abnormally low pressure condition in the system.

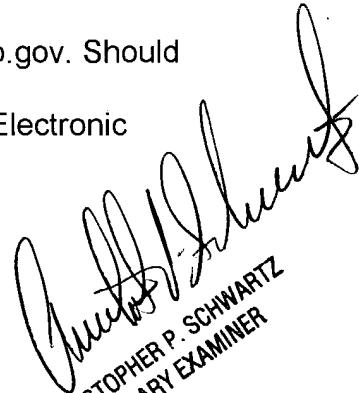
Regarding claims 12-14 these requirements are met.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher P. Schwartz whose telephone number is 703-308-0576. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack W. Lavinder can be reached on 703-308-3421. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cps
5/2/04



CHRISTOPHER P. SCHWARTZ
PRIMARY EXAMINER